

Amendments to the Claims:

1 1. (Cancelled)

1 2. (Cancelled)

1 3. (**currently amended**) A network according to claim 6 [[2]], characterised in that the
2 communication unit or communication computer node (5) is formed for enquiry-based or
3 event-based communication with the diagnosis computer node.

1 4. (Cancelled)

1 5. (**currently amended**) A network according to claim 6 [[4]], characterised in that the
2 communication unit is capable of running entirely or in part on the hardware of the
3 process computer node and/or diagnosis computer node.

1 6. (**currently amended**) A computer network for the configuration, installation,
2 monitoring, error diagnosis and/or error analysis of plural technical-physical electric
3 drive processes, which run under the control, regulation and/or monitoring by plural
4 process computer nodes (4), which are connected via at least one shared communication
5 system to at least one diagnosis computer node in which one or more configuration,

6 monitoring, diagnosis service(s) and/or function(s) are implemented, which are allocated
7 to the processes and/or the process computer nodes (4) and/or to the data processing
8 operations running therein, characterised in that:

9 (a) the shared communication system is realised by an Ethernet or another bus or
10 communication system operating asynchronously and/or with a stochastic access
11 method;

12 (b) a communication unit or computer node is interconnected between the Ethernet or
13 other bus or communication system and at least one of the process computer
14 nodes (4) and connects the process computer node (4) to the Ethernet or other bus
15 or communication system;

16 (c) the communication unit or communication computer node (5) is formed for
17 communication with the diagnosis computer node via XML protocols and/or as an
18 XML-based interface; and

19 (d) A network according to claim 4, characterised in that the communication
20 computer node (5) is formed as an additional component for the respective
21 process computer node (4).

1 7. **(currently amended)** A network according to claim 6 [[2]], characterised in that for
2 each data exchange each communication unit is allocated a process computer node (4)
3 and/or a technical-physical process or each communication computer node (5) is
4 allocated at least one technical-physical process or a process computer node (4).

1 8. **(currently amended)** A computer network for the configuration, installation,
2 monitoring, error diagnosis and/or error analysis of plural technical-physical electric
3 drive processes, which run under the control, regulation and/or monitoring by plural
4 process computer nodes (4), which are connected via at least one shared communication
5 system to at least one diagnosis computer node in which one or more configuration,
6 monitoring, diagnosis service(s) and/or function(s) are implemented, which are allocated
7 to the processes and/or the process computer nodes (4) and/or to the data processing
8 operations running therein, characterised in that:

9 (a) the shared communication system is realised by an Ethernet or another bus or
10 communication system operating asynchronously and/or with a stochastic access
11 method;

12 (b) a communication unit or computer node is interconnected between the Ethernet or
13 other bus or communication system and at least one of the process computer
14 nodes (4) and connects the process computer node (4) to the Ethernet or other bus
15 or communication system;

16 (c) for each data exchange each communication unit is allocated a process computer
17 node (4) and/or a technical-physical process or each communication computer
18 node (5) is allocated at least one technical-physical process or a process computer
19 node (4).; and

20 ~~(d) A network according to claim 7, characterised in that~~ at least one of the
21 communication computer nodes (5) is connected to plural process computer nodes
22 via a serial communication system.

1 9. **(Previously presented)** A network according to claim 8, characterised in that the
2 communication unit or communication computer node (5) is provided with functionalities
3 for an error search or diagnosis in a region of at least one of the process computer nodes
4 and/or technical physical processes.

1 10. **(Previously presented)** A network according to claim 8, characterised in that the
2 diagnosis computer node is formed for delivering or supporting web-based user interfaces
3 in particular via data remote transmission or a long-distance traffic network and is
4 provided with the function components corresponding to the user interfaces.

1 11. **(Previously presented)** A network according to claim 8, characterised by a structure
2 corresponding to a client/server architecture with the diagnosis computer node as server.

1 12. **(Cancelled)**

1 13. **(currently amended)** A computer node according to claim 16 ~~[[42]]~~, characterised in
2 that a web server for generating and forwarding data obtained from HTML pages by the
3 Servlet container is connected downstream of the Servlet container.

1 14. **(currently amended)** A computer node according to claim 16 ~~[[42]]~~, characterised in
2 that the interfaces are installed for communication with the communication and/or
3 process computer node via XML protocols and/or the interfaces for communication with
4 the client computer nodes via SOAP (Simple Object Process Protocol).

1 15. **(currently amended)** A computer node according to claim 16 ~~[[42]]~~, characterised
2 by a communication unit installed by program or software technology in such a manner
3 that thereby one or more of the process computer nodes (4) can be connected to the
4 Ethernet or other bus communication system.

1 16. **(currently amended)** A diagnosis computer node connected to a computer network,
2 which utilizes a structure corresponding to a client/server architecture, for configuration,
3 installation, monitoring, error diagnosis and/or analysis of plural technical-physical
4 electric drive processes, which run under control regulation and/or monitoring by plural
5 process computer nodes (4), said computer network comprising at least one
6 communication computer node (5), wherein said diagnosis computer node is formed as a
7 server with interfaces to at least one database, for communication with the

8 communication and/or process computer nodes and other client computer nodes, wherein
9 interfaces to the other client computer nodes are formed as Servlet containers, which
10 provide transmission of diagnosis data obtainable from the interfaces for communication
11 with the communication and/or process computer nodes to the client nodes, and the one
12 or more interfaces to the communications and/or process computer nodes or
13 communication units are realised on the basis of the Ethernet, comprising:

14 (a) a diagnosis channel, which is formed by:

15 one or more Ethernet interfaces allocated to the communication and/or process
16 computer node (4);

17 an event management unit with database access, which is formed for processing
18 the diagnosis data obtained at the Ethernet interfaces; and

19 an event monitoring unit applied on the basis of the Servlet container, which
20 makes available output data from the event management unit to one or more

21 Applets on external client computer nodes; and ~~A computer node according to~~
22 ~~claim 12, characterised by~~

23 (b) an appliance management unit having information data via the configuration of
24 the technical-physical processes together with associated process computer nodes
25 (4) and one or more function components, which are formed to visualise the
26 configuration in combination with the client computer node and/or for keeping
27 ready the information data for further data processing operations.

1 17. (Cancelled)

1 18. (currently amended) A communication computer node (5) or communication
2 unit according to claim 19 [[47]], characterised in that the first interface is formed for
3 communication on the basis of XML protocols.

1 19. (currently amended) A communication computer node (5) or communication unit as
2 a software and/or firmware module, connected to a computer network for configuration,
3 installation, monitoring, error diagnosis and/or analysis of plural technical-physical
4 electric drive processes, which run under control, regulation and/or monitoring by plural
5 process computer nodes (4), which are connected via at least one shared communication
6 system to at least one diagnosis computer node in which one or more configuration,
7 monitoring, diagnosis services and/or functions are implemented which are allocated to
8 the processes and/or the process computer nodes (4) and/or to the data processing
9 operations running therein, said shared communication system being realized by an
10 Ethernet or other bus or communication system operating asynchronously and/or with a
11 stochastic access method characterised by:

12 the communication computer node or communication unit comprising a first
13 interface which is allocated to the at least one diagnosis computer node and which
14 is programmed for communication via protocols of the TCP/IP family, including
15 UDP/IP and by one or more second interfaces allocated to one or more of the

16 process computer nodes (4), wherein the first and the one or more second interfaces
17 may be coupled together via one or more information brokers, which are each
18 formed by program and/or circuit technology as sub-units for bidirectional enquiry-
19 based and/or event-based data communication between the first and second
20 interface and wherein ~~A communication computer node (5) or communication unit~~
21 ~~according to claim 17 or 18, characterised in that~~ the second interface is formed for
22 connection to a serial communication system.

1 20. **(currently amended)** A communication computer node (5) or communication unit as
2 a software and/or firmware module, connected to a computer network for configuration,
3 installation, monitoring, error diagnosis and/or analysis of plural technical-physical
4 electric drive processes, which run under control, regulation and/or monitoring by plural
5 process computer nodes (4), which are connected via at least one shared communication
6 system to at least one diagnosis computer node in which one or more configuration,
7 monitoring, diagnosis services and/or functions are implemented which are allocated to
8 the processes and/or the process computer nodes (4) and/or to the data processing
9 operations running therein, said shared communication system being realized by an
10 Ethernet or other bus or communication system operating asynchronously and/or with a
11 stochastic access method characterised by:

12 the communication computer node or communication unit comprising a first
13 interface which is allocated to the at least one diagnosis computer node and which

14 is programmed for communication via protocols of the TCP/IP family, including
15 UDP/IP and by one or more second interfaces allocated to one or more of the
16 process computer nodes (4), wherein the first and the one or more second interfaces
17 may be coupled together via one or more information brokers, which are each
18 formed by program and/or circuit technology as sub-units for bidirectional enquiry-
19 based and/or event-based data communication between the first and second
20 interface and wherein ~~A communication computer node (5) or communication unit~~
21 ~~according to claim 17, characterised in that~~ the one or more information brokers
22 comprise one or more function components, which are formed for error search or
23 diagnosis in a region of the process computer nodes and/or technical-physical
24 processes.

1 21. **(currently amended)** A communication computer node (5) or communication unit as
2 a software and/or firmware module, connected to a computer network for configuration,
3 installation, monitoring, error diagnosis and/or analysis of plural technical-physical
4 electric drive processes, which run under control, regulation and/or monitoring by plural
5 process computer nodes (4), which are connected via at least one shared communication
6 system to at least one diagnosis computer node in which one or more configuration,
7 monitoring, diagnosis services and/or functions are implemented which are allocated to
8 the processes and/or the process computer nodes (4) and/or to the data processing
9 operations running therein, said shared communication system being realized by an

10 Ethernet or other bus or communication system operating asynchronously and/or with a
11 stochastic access method characterised by:
12 the communication computer node or communication unit comprising a first
13 interface which is allocated to the at least one diagnosis computer node and which
14 is programmed for communication via protocols of the TCP/IP family, including
15 UDP/IP and by one or more second interfaces allocated to one or more of the
16 process computer nodes (4), wherein the first and the one or more second interfaces
17 may be coupled together via one or more information brokers, which are each
18 formed by program and/or circuit technology as sub-units for bidirectional enquiry-
19 based and/or event-based data communication between the first and second
20 interface and wherein ~~A communication computer node (5) or communication unit~~
21 ~~according to claim 17, characterised in that~~ plural information brokers are installed
22 with different functionalities and are connected to a connection manager, which is
23 formed by program or circuit technology as a sub-unit for carrying out pre-
24 determinable priority stages, according to which a specified one of the plural
25 information brokers may be connected to the second interface(s) and each have a
26 communication requirement at the process computer node(s) (4).

1 22. **(currently amended)** A communication computer node (5) or communication unit as
2 a software and/or firmware module, connected to a computer network for configuration,
3 installation, monitoring, error diagnosis and/or analysis of plural technical-physical

4 electric drive processes, which run under control, regulation and/or monitoring by plural
5 process computer nodes (4), which are connected via at least one shared communication
6 system to at least one diagnosis computer node in which one or more configuration,
7 monitoring, diagnosis services and/or functions are implemented which are allocated to
8 the processes and/or the process computer nodes (4) and/or to the data processing
9 operations running therein, said shared communication system being realized by an
10 Ethernet or other bus or communication system operating asynchronously and/or with a
11 stochastic access method characterised by:

12 the communication computer node or communication unit comprising a first
13 interface which is allocated to the at least one diagnosis computer node and which
14 is programmed for communication via protocols of the TCP/IP family, including
15 UDP/IP and by one or more second interfaces allocated to one or more of the
16 process computer nodes (4), wherein the first and the one or more second interfaces
17 may be coupled together via one or more information brokers, which are each
18 formed by program and/or circuit technology as sub-units for bidirectional enquiry-
19 based and/or event-based data communication between the first and second
20 interface and further comprising ~~A communication computer node (5) or~~
21 ~~communication unit according to claim 17, characterised by~~ a software information
22 broker for bidirectional transmission of firmware or other data or complete data
23 records from the first to the second interface(s).

1 23. **(Previously presented)** A communication computer node (5) or communication
2 unit according to claim 22, characterised in that an FTP (File Transfer Protocol) server is
3 interconnected between the software information broker and the first interface.

1 24. **(Previously presented)** A communication computer node (5) or communication
2 unit according to claim 22, characterised by the provision of a non-volatile write/read
3 memory, in particular flashcard memory, with which one or more of the information
4 brokers communicate.

1 25. **(Previously presented)** A communication computer node (5) or communication
2 unit according to claim 22, characterised by a parameter information broker for realising
3 an interface which is XML-based for the reading and/or writing of parameters in one or
4 more allocated process computer nodes (4).

1 26. **(Previously presented)** A communication computer node (5) or communication unit
2 according to claim 22, characterised by an error/event information broker, which is
3 formed for communication with an XML-based protocol on the basis of TCP/IP via the
4 first interface and is provided with a test and trigger member which can be so configured
5 from outside that if a predetermined event occurs, in the region of the process computer
6 node(s) (4) and/or of the technical-physical process, automatically a corresponding
7 message transmission is released to the first interface.

1 27. **(Previously presented)** A communication computer node (5) or communication
2 unit according to claim 22, characterised by the installation of an interpreter for the
3 running of scripts which are formed for access to function elements and/or information
4 data in the information broker(s) for the purpose of carrying out monitoring and diagnosis
5 functions.

1 28. **(Previously presented)** A communication computer node (5) or communication
2 unit according to claim 27, characterised in that the interpreter may be so coupled to an
3 FTP (File Transfer Protocol) server connected to the first interface that scripts received
4 via the first interface may be executed.

1 29. **(Previously presented)** A communication computer node (5) or communication
2 unit according to claim 27 characterised by said communication computer node or
3 communication unit being formed as an additional structural component for a respective
4 process computer node (4) and/or structural incorporation with a process computer node.

1 30. **(Previously presented)** A communication unit according to claim 27,
2 characterised by implementation which is at least in part loadable on to the hardware of a
3 process and/or diagnosis computer node.